

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMEÜBERTRAGER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 3159646 B2 20211229 (DE)

Application
EP 16002142 A 20160930

Priority
DE 102015013517 A 20151020

Abstract (en)
[origin: CA2943963A1] Heat exchanger, which comprises a plurality of heat transfer tubes (3) and a centrally arranged bypass tube (4), which are held each between a tube plate (5) of a gas inlet chamber (7) and a tube plate (6) of a gas outlet chamber (8), wherein the respective tube plates (5, 6) are connected to a cylindrical jacket, within which a jacket space (9) is formed, in which the heat transfer tubes (3) and the bypass tube (4) are enclosed and a coolant (11) can be introduced. A control device (16), which comprises a throttle valve (18) and a drive (19), is arranged at the outlet end (17) of the bypass tube (4). The control device (16) is intended for setting a gas outlet temperature of the heat exchanger (1) to a certain temperature range, wherein a discharge speed and a discharged quantity of an uncooled waste gas stream (14) from the bypass tube (4) can be controlled by the throttle valve (18), which is arranged at the outlet end (17) of the bypass tube (4) and is adjustable by means of the control device (16). The throttle valve (18) consists of a material resistant to high-temperature corrosion in the temperature range sensitive for high-temperature corrosion.

IPC 8 full level
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CPC (source: CN EP KR US)
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Citation (opposition)
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